AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method for classifying and selecting records, the method

comprising:

receiving records containing several fields, the fields of which records contain

values,

reading (1002) the values contained in at least two specified fields from each of

the received records,

selecting (1001) field-specifically ordered classification structures corresponding

to the specified fields, which field-specifically ordered classification structures comprise

an own ordered classification structure for each of the specified fields in the received

record,

for each record:

searching (1001, 1004, 1007) from the selected classification structures a set

of suitable classes for each of the specified fields, wherein the suitable classes

correspond to the a value read from the one of said field fields, and

forming an intersection set of the sets of suitable classes, and

selecting a class from the intersection set and assigning (1112) the selected class

to the record, whereby said assigned class has been read from the field-specifically

ordered classification structure.

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2. (Currently Amended) A method according to Claim 1, characterized in that wherein:

- sets are formed forming an intersection set comprises forming a set on the basis of the values of the fields, in such a way that a set of classes is formed for each field; and

incorporates — the service IDs, and the a condition of the a field used in the a conditional statement of the a given class of which is true, are incorporated in the field specific sets, and-

further wherein selecting a class comprises selecting the class that appears in all of the sets, i.e. whose conditional statement is entirely true, is selected (1111).

- 3. (Currently Amended) A method according to Claim 1-or-2, characterized in that wherein selecting a class further comprises using the accuracy principle is used to select the class, to which the record is selected assigned, from the classes corresponding to the a reference value or reference values, in which case that is selected, from of those corresponding to the reference value or reference values, which has the definition of which the greatest number of classification structure conditions are met.
- 4. (Currently Amended) A method according to any of Claims 1 3, characterized in that wherein selecting a class comprises selecting the class to which the record is selected assigned is selected, from the classes corresponding to the a reference value or reference values, by applying an intersection or intersections and unions performed using logical operands.

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5. (Currently Amended) A method according to any of Claims 1 — 4claim 1, characterized in that the reference value is searched from a field specific classification structure, by wherein searching comprises using a search method that is faster than a sequential search, such as a binary search, a tree search, a hash search, and that further wherein the least comparisons are used to find the a reference value according to the value contained in the field is found in an ordered structure in the classification structure read from one of said fields.

- 6. (Currently Amended) A method according to any of Claims 1—5claim 1, characterized in that the records received wherein receiving records comprises receiving records that are formed on the basis of contain information regarding the properties of the telecommunications connections.
- 7. (Currently Amended) A method according to any of Claims 1—6claim 1, characterized in that wherein the fields of the records are fields marked with a field ID.
- 8. (Currently Amended) A method according to any of Claims 1—7claim 1, characterized in that wherein the fields contain values in various formats, such as numeric and symbolic values are placed in the fields, and that further wherein there are specific classification structures for the various formats, and/or indicators to the classification structures.

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9. (Currently Amended) A method according to any of Claims 1 -\_ 8claim 1,

characterized in thatwherein the said selected classes to which the records are selected are

service classesclass comprises a service class of billable telecommunications services, or

a call, and/or types of telecommunications connections.

10. (Currently Amended) A method according to any of Claims 1 - 9claim 1,

characterized in that the classes, to which the records are selected, are separated wherein

said selecting comprises separating the classes in the intersection set on the basis of

conditions relating to the properties of telecommunications connections.

11. (Currently Amended) A method according to any of Claims 1-\_ 10claim 1,

characterized in that wherein at least one field identifier corresponds to a field depicting

the duration in time of a billable telecommunications connection and/or a field depicting

the volume and/or speed of the data transmitted over a billable telecommunications

connection.

12. (Currently Amended) A method according to any of Claims 1—11claim 1,

<del>characterized in that</del>wherein the received record is a telecommunications network event

description record, such as a CDR, ER, IPDR, or UDR.

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13. (Currently Amended) A method according to any of Claims 1 - 123, characterized in that wherein the names of the fields are set to form the entries of the table and for each

field at least one operand-specific table according to at least one of the following

operands is created, greater than (>), greater than or equal to (>=), less than <, less than

or equal to (<=), equal to (=), and not equal to (!=) tables, so that a tree-like field-specific

classification structure is created for each specified field.

14. (Currently Amended) A method according to claim 1, characterized in that wherein

the intersection set includes more than one class and, of these classes, the class with the

greatest accuracy is selected during said selecting step, which wherein accuracy is

defined on the basis of the number of fields used in the a conditional statement of the

class.

15. (Currently Amended) A method according to claim 1, characterized in that wherein

the intersection set is an empty set and the class is selected in such a way that a review is

made of the statement with next lowest accuracy.

16. (Currently Amended) A method according to any of Claims 1 \_\_ 15claim 1,

characterized in that it is wherein said method is performed in a mediator system of a

telecommunications network.

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17. (Currently Amended) A classification system for records, which includes a classification system that is arranged - that is configured to receive records, the fields of which contain values, and - to select the records to classes, characterized in thatwhereinthe system comprising: -the classification structure contains a field-specific classification structure that classifies records according to at least one specified field of the received records, -a logic connector that connects logical operands are connected to the fieldspecific classification structure, -a reference structure arrangement unit that arranges the reference values used in the service-class definition suiting each operand relating to each defined field are arranged to forminto a separately ordered structure, a class to structure connector that connects classes suiting each reference value are connected to each ordered structure, and \_ the classification system is set to select, a selection unit that selects, to a set class, the classification of a received record. 18. (Currently Amended) A classification system according to Claim 17, characterized in further comprising a condition recorder that records the conditions of the classes are recorded-in the classification structure.

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19. (Currently Amended) A classification system according to Claim 17 or 18, characterized in that further comprising an operand-specific ordered data structure that contains at least one reference value and at least one service ID according to the reference value are recorded in an operand-specific ordered data structure.

20. (Currently Amended) A classification system according to Claim 17—19, characterized in that the field specifically ordered field-specific classification system structure further comprising contains a selection structure based on operands and a class division corresponding to the selections according to the structure.

21. (Currently Amended) A classification system according to any of Claims 17—

20claim 17, characterized in that the classification system contains further comprising format-specific classification structures, or format-specific indicators to the classification structures.

22. (Currently Amended) A classification system according to any of Claims 17—21claim 17, characterized in that the wherein reference values in the field-specific classification structure are arranged as an ordered structure essentially in order of magnitude.

23. (Currently Amended) A classification system according to any of Claims 17—

22claim 17, characterized in that thethe field-specific classification structure comprising

<u>separate structures are separated</u> on the basis of the form of the symbol used in the classification structure field, such as character-form or numeric.

- 24. (Currently Amended) A classification system according to any of Claims 17 \_\_ 23claim 17, characterized in that the field identifier is arranged to correspond to the wherein the at least one specified field comprises a field depicting the data-transfer capacity of a billable telecommunications connection.
- 25. (Currently Amended) A classification system according to any of Claims 17 \_\_ 24claim 17, characterized in that wherein the reference structure arrangement unit arranges the reference values are listed in order of magnitude and/or accuracy.
- 26. (Currently Amended) A classification system according to any of Claims 17—25claim 17, characterized in that it is arranged to perform search—from the classification structure for the service class set for a received record, according to the method according to any of Claims 1—16further comprising:

a search engine that searches, for each record, from selected classification

structures, a set of suitable classes for each of the specified fields, wherein the suitable

classes correspond to a value read from one of said fields, and

an intersection set forming unit that forms an intersection set of the sets of suitable classes.

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27. (Currently Amended) A classification system according to any of Claims 17—

26claim 17, characterized in that it is arranged to operate in wherein said system is part of

a mediator system of a telecommunications network.

28. (Currently Amended) A classification system according to any of Claims 17—

27claim 17, characterized in that the fields arewherein the at least one specified field is a

field fields marked using a field identifier.

29. (Currently Amended) A classification system according to any of Claims 17—

28claim 17, eharacterized in that wherein values with different formats, such as numeric

and symbolic values, are set in the fields and there are specific classifications structures

and/or indicators to classification structures for the different formats.

30. (Currently Amended) A classification system according to any of Claims 17—

29 claim 28, characterized in that wherein at least one field identifier corresponds to a field

depicting the duration in time of a billable telecommunications connection and/or a field

depicting the volume and/or rate of data transmitted on a billable telecommunications

connection.

31. (Currently Amended) A computer-readable medium having embodied thereon a

program product that, when executed, causes a computer to execute a method for

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classifying records, characterized in that it is arranged to perform a method according to
any of Claims 1 - 16 and that it includes a classification structure according to any of
Claims 17—30., the method comprising:
receiving records containing several fields, the fields of which records contain
values,
reading the values contained in at least two specified fields from each of the
received records,
selecting field-specifically ordered classification structures corresponding to the
specified fields, which field-specifically ordered classification structures comprise an
own ordered classification structure for each of the specified fields in the received record,
for each record:
searching from the selected classification structures a set of suitable classes
for each of the specified fields, wherein the suitable classes correspond to a value
read from one of said fields, and
forming an intersection set of the sets of suitable classes, and
selecting a class from the intersection set and assigning the selected class to the
record, whereby said assigned class has been read from the field-specifically ordered
classification structure.